Kinley

Product & Installation Guide

RainEdge

Steel Landscape edging for Rain Gardens

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Advanced landscape edging solution designed specifically for rain gardens, providing a durable and sustainable alternative to traditional concrete kerbing. Engineered with precision, RainEdge is available in three distinct materials:

- Corten weathering steel
- Galvanised steel
- Untreated steel
- Powder coat finishes available on request

Benefits:

- Rigid design for bold visual impact or flat profile for flexibility in curved designs
- Preformed 90-degree corner sections for ease of install and a cleaner finish
- Integrated slots along profile to enhance drainage efficiency
- Folded top edge, rather than a thin sharp edge which provides a safer option for areas such as schools.
- Made from sustainable materials and 100% recyclable

Suitable for use with:

- Rain Garden landscaping

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Finish	Edging height (mm)	Thickness	Edging length (mm)	Item code
Galvanised	250	3mm	2.4m	171011
	300	3mm		171011
Untreated	250	3mm	2.4m	171010
	300	3mm		171014
CorTen	250	3mm	2.4m	171012
	300	3mm		171016
Powder Coated	250	3mm	2.4m	171013
	300	3mm		171017

Finish	Edging height (mm)	Thickness	Profile	Item code
Galvanised	250	3mm	External 150x150mm	171019
	250	3mm	Internal 150x150mm	171023
	300	3mm	External 150x150mm	171027
	300	3mm	Internal 150x150mm	171031
Untreated	250	3mm	External 150x150mm	171018
	250	3mm	Internal 150x150mm	171022
	300	3mm	External 150x150mm	171026
	300	3mm	Internal 150x150mm	171030
CorTen	250	3mm	External 150x150mm	171020
	250	3mm	Internal 150x150mm	171024
	300	3mm	External 150x150mm	171028
	300	3mm	Internal 150x150mm	171032
Powder Coated	250	3mm	External 150x150mm	171021
	250	3mm	Internal 150x150mm	171025
	300	3mm	External 150x150mm	171029
	300	3mm	Internal 150x150mm	171033

Accessories

Item code	Product properties	Pack Qty
155016	Rebar fixing stakes	20
155020	3mm Untreated Connection plate	5
155027	3mm Galvanised Connection plate	5

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Tools Required

- ✔ Hammer
- ✔ Angle grinder
- ✔ Level
- ✔ Tape measure
- ✔ Spray paint
- ✔ String line
- ✔ Shovel / spade

Fixings included

- ✔ 450mm Fixing Stake
- ✔ Connector Bracket

Standard method to compacted MOT Type 1 sub-base or similar material

1 Set-out

RainEdge can be installed onto sub grade as well as soil. Mark out (we recommend using stringline) the area where you want the edging to sit. Either compact the sub-grade or if using soil dig a shallow trench.

A concrete haunch may be required in certain instances. Please call our technical team if you have any queries.

2 Laying the edging

Lay the edging in place and fix through the welded tubes with the Fixing Stakes provided. Use these Stakes to create an anchor point if you need to flex the product to a curve.

Ensure that the welded tubes and connectors are on the side of the edging that is least likely to be seen once installation is complete.

3 Connecting the edging

Connect each edging length with the Connector Bracket provided.

4 Laying surfaces

Lay final surface, ensuring that the slots in the edging are exposed to allow for drainage. The height of the slots should be as per contractors recommendations.

Backfill behind edging or lay additional hard surface as required.

5 Hot lay surfacing

Compact surfacing with roller. Ensure first pass with roller is 50mm clear of RainEdge edging, with vibrating function turned off.

Final pass should be made as close to the edge as possible.

On the final wearing course, and where applicable, roller should be run over edge of the RainEdge to ensure full compaction and a neat finish.

Concrete haunching recommended for heavy duty or hot lay install, particularly where forming straight lines.

Handling and hazards

HEAVY SEGMENTS!
Requires two persons to lift each segment – or mechanical lifting device.

HEAVY ITEMS!
Wear steel toe protection.

SHARP CORNERS AND EDGES!
Wear gloves

BE SAFE!
Wear high visibility clothing, hard hats, and any other PPE required on site.

DISCLAIMER
These instructions are for guidance only and the installer is responsible to use their discretion to install the products in the best possible way for their respective application. Kinley Systems will not be held liable for product failure or poor performance as a result of poor quality installation. If any errors are found in this guide please email us at **sales@kinley.co.uk.**

SUPPORTING DOCUMENTS
More information on the Urban edging products can be found at www.**kinley.co.uk** in the Resource Centre.

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Applications
To edge or demarcate planting in rain gardens and provide a system whereby water can flow from the surrounding surfaces directly into the rain garden. This enhances drainage efficiency and supports the garden's role in filtering and managing stormwater. RainEdge is provided in three finishes and two profile types to allow flexibility in design. .

Installation information[1]
Hard Landscape: By haunching the edging in a reasonably dry mix 3:1 sharp sand / cement. Secure using 450mm Fixing Pins.

Soft Landscape: By mounting the edging on compacted subsoil using 450mm Fixing Pins and backfilling with landscape surfacing. If required, intermediate supports such as small slabs or bricks can be inserted under the edging approximately every 1.5m.

Storage & Handling
The product is securely packed onto a wooden splint and sealed in clear plastic sleeving to ensure no movement of the product in transit. Depending on the size / weight of the consignment this may be palletised.

Whilst there is no specific weight restrictions on what is or is not safe to lift in manual handling, an assessment of the health and safety risks should be undertaken and measures taken to reduce the risk of injury so far as reasonably practicable.

The following guidelines may be useful:
a) Each person should be fully trained in manual handling techniques.
b) The use of handling aids such as a trolley, folk-lift, pallet truck or conveyor should be used if moving large volumes of cartons.
c) Break up large consignments into more manageable loads.
d) Ensure that the product is stored at a reasonable height, so avoiding the lifting of cartons from floor level or above shoulder height.
e) Reduce carrying distances of cartons.

Protective Equipment
a) aGood strong safety boots/shoes to protect the feet.
b) Protective eyewear such as safety glasses.
c) Strong gloves to protect the hands.
d) If using loud cutting equipment then ear plugs or defenders should be worn.

First Aid
The Health and Safety Regulations 1981 require all construction sites to have the following:
e) A first aid box with enough equipment to cope with the number of workers on site.
f) An Appointed Person to take charge of first-aid arrangements. The Appointed Person looks after first aid equipment and facilities and calls the emergency services when required. Appointed Persons do not need first aid training.
g) A First-Aider who has undertaken training and holds an HSE approved qualification to administer firstaid. This means that they must hold a valid certificate of competence in either:
   - First aid at work (FAW) issued by a training organisation approved by HSE
   - Emergency first aid at work (EFAW) issued by a training organisation approved by HSE
   - A recognised Awarding body of Ofqual/Scottish Qualifications Authority.
h) The number of first-aiders will depend on the site.
i) Information should be clearly displayed on site telling workers the name of the Appointed Person(s) or First Aider(s) and where to find them.

Fire Protection
RainEdge edging is made using Corten A, Galvanised, Powder Coated or Untreated Steel, none of which burn nor pose a fire hazard.

Stability
Corten A, Galvanised and Coated Steels are high performance materials that display excellent resistance to atmospheric corrosion when compared to other steels, making them exceptionally suitable for landscape edge restraint applications. Corten A is a type of weathering steel which was developed to remove the need for regular painting and rust-prevention maintenance. This is achieved by the formation of a natural stable coating of dark brown oxidation across the metal's surface which acts as a barrier to the corrosive effects of rain, snow and other weather conditions.

Galvanised Steel is manufactured by coating hot-rolled mild carbon steel with a thin layer of zinc. This zinc layer provides a far greater level of protection against the elements than the steel alone and inhibits rust formation.

Powder Coating combined with galvanised coating provides extra layers of protection whilst offering a custom colour also.

Untreated Steel has had no finish applied to the hot-rolled mild carbon steel product. As such, a protective coating of dark brown oxidation will form across the metal's surface which will acts as a barrier to the corrosive effects of rain, snow and other weather conditions.

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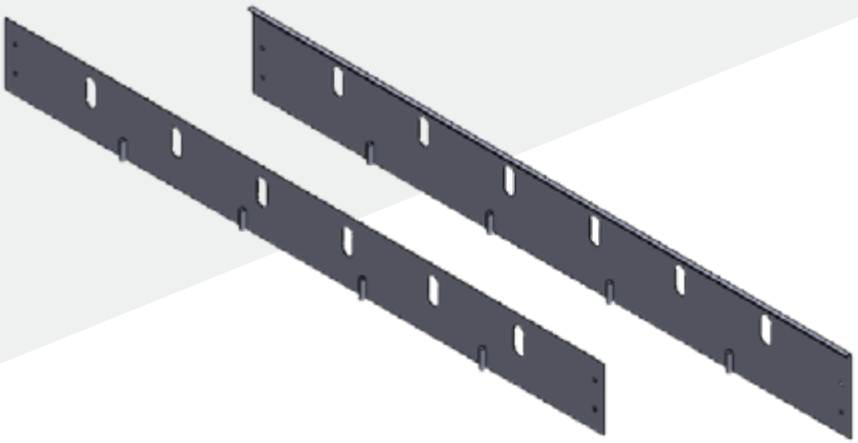
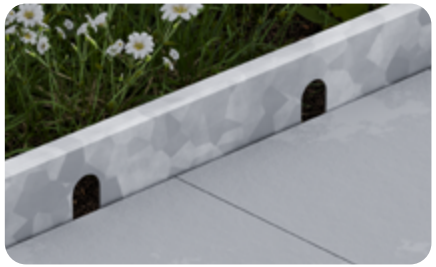
[1] The Installation Information given in this document is intended as a guide only. We recommend that professional opinions are obtained before work is commissioned. Kinley accepts no responsibility for any damage or loss as a result of using the Installation Information. We will be happy to engage in any discussion with regard to specific project applications.

Environmental Issues
RainEdge is manufactured from either Corten A, Galvanised, or Untreated Steel and is 100% recyclable. As a result the whole life cost of steel RainEdge edging is excellent as it is sold for recycling not paid disposal. The principal element used in the production of steel is iron, which is second only to aluminium in terms of natural abundance in the Earth's crust. At current extraction rates there is enough iron to last another 1000+ years.

Supporting Documents
More information on the RainEdge products can be found at www.kinley.co.uk in the Resource Centre.
In particular, look for the CAD Drawings, Installation Guide and Edging Book.





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